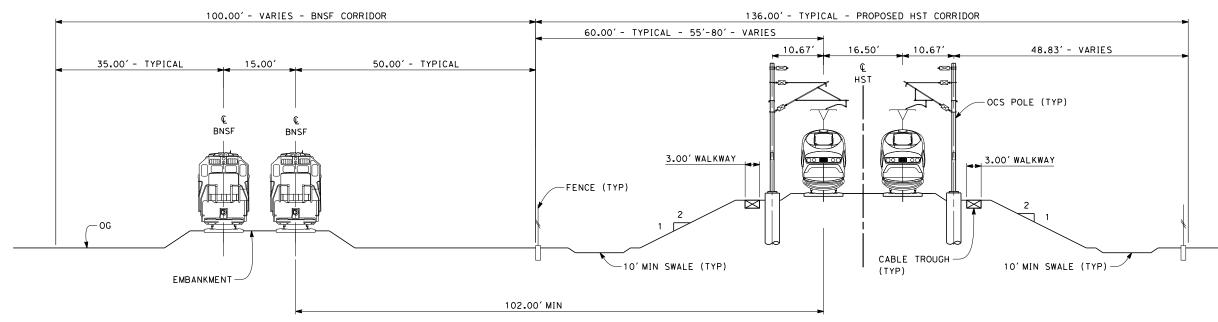
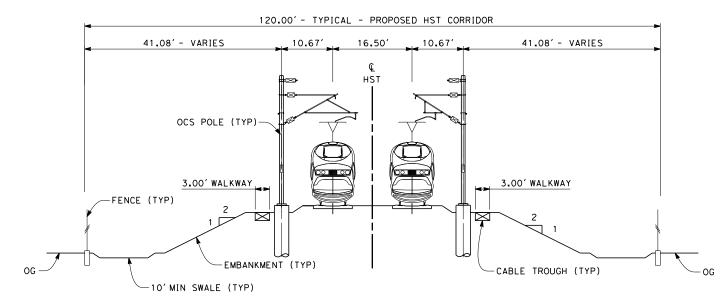


- 1. TRACKFORM SHOWN IS INDICATIVE.
- 2. SUPERELEVATION IS NOT SHOWN. THE AMOUNT OF APPLIED SUPERELEVATION IS SHOWN IN THE CURVE DATA TABLES.



TWIN TRACK ADJACENT TO BNSF - AT GRADE 136' STA 1065+00 THROUGH STA 1262+00



SECTION 2

TWIN TRACK AT GRADE 120' ROW/ EMBANKMENT WITH OPEN DRAINAGE STA 1262+00 THROUGH STA 1407+26 STA 1493+00 THROUGH STA 1778+56 STA 1905+85 THROUGH STA 1974+02



						DESIGNED BY A. POLING	
						DRAWN BY J. BORGHESI	RECORD SET 15% Design Submission
						CHECKED BY	•
						IN CHARGE R. COFFIN	NOT FOR CONSTRUCTION
REV	DATE	BY	СНК	APP	DESCRIPTION	DATE 12/31/13	





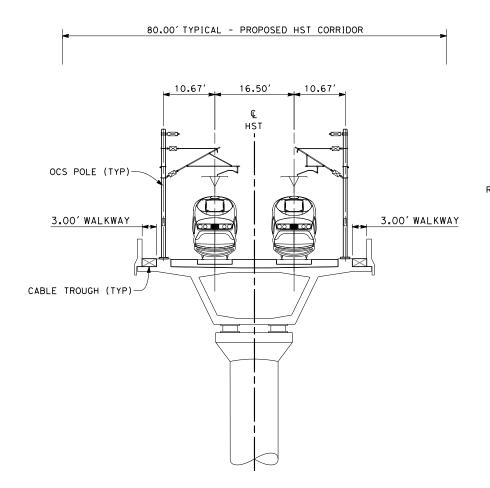
CALIFORNIA HIGH-SPEED TRAIN PROJECT FRESNO TO BAKERSFIELD

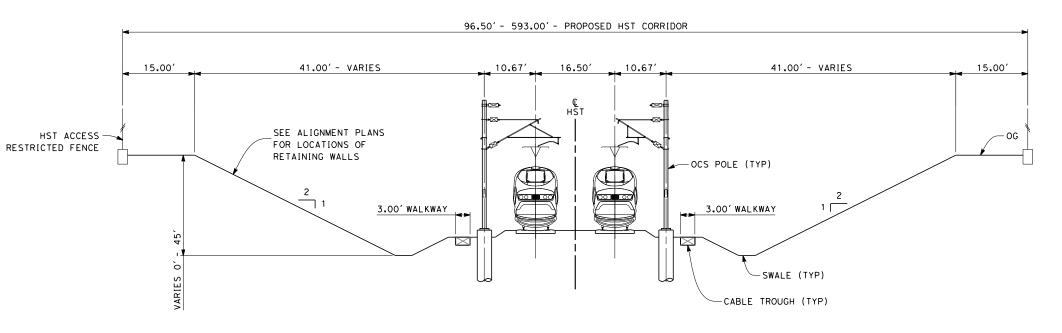
HANFORD WEST BYPASS SUBSECTION ALIGNMENT HW2 (BELOW-GRADE) - MODIFIED TYPICAL SECTIONS

CONTRACT NO. HSR 06-	0003			
DRAWING NO.				
CB320)1			
SCALE				
AS SHO	NWC			

SHEET NO. 24 OF 29

- 1. TRACKFORM SHOWN IS INDICATIVE.
- 2. SUPERELEVATION IS NOT SHOWN. THE AMOUNT OF APPLIED SUPERELEVATION IS SHOWN IN THE CURVE DATA TABLES.
- 3. FOR STRUCTURE DIMENSIONS SEE STRUCTURAL CROSS SECTIONS.
- 4. CUT SLOPES GREATER THAN 30 FEET IN DEPTH WILL REQUIRE MID SLOPE BENCHES 6 FEET WIDE WITH A 6% GRADIENT TOWARDS THE LOW END OF THE CUT SLOPE.





SECTION 4 TWIN TRACK IN CUT

STA 1778+56 THROUGH STA 1821+95 STA 1881+95 THROUGH STA 1905+85

SECTION 3

TWIN TRACK AERIAL VIADUCT STA 1407+26 THROUGH STA 1493+00



12/		_					DESIGNED BY A. POLING	
ing							DRAWN BY J. BORGHESI	RECORD SET 15%
ġ.							CHECKED BY	DESIGN SUBMISSION
der							G. MEJIA IN CHARGE	NOT FOR
XQU							R. COFFIN	CONSTRUCTION
<u>ê</u>	REV	DATE	ВΥ	СНК	APP	DESCRIPTION	DATE 12/31/13	

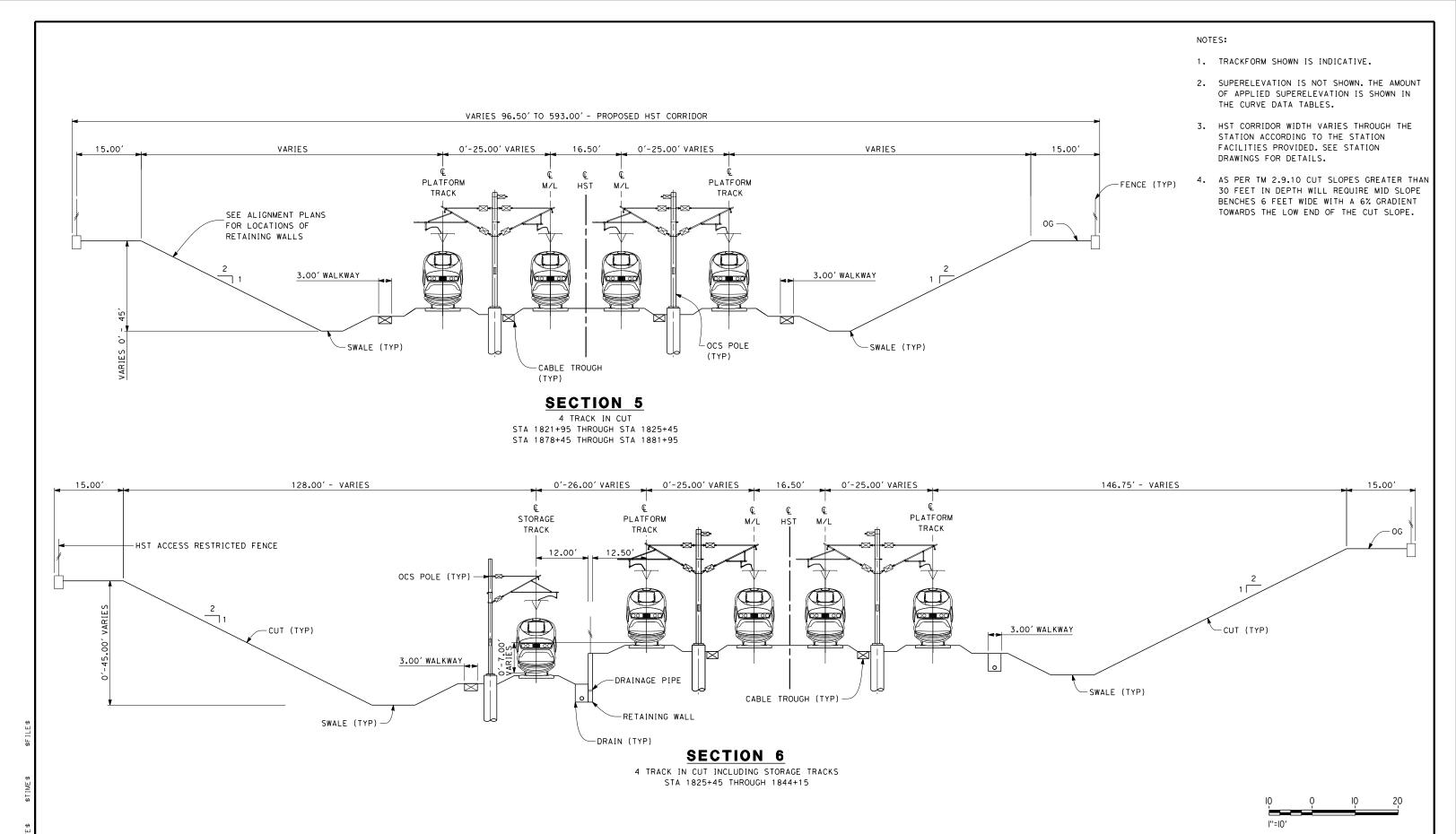




CALIFORNIA HIGH-SPEED TRAIN PROJECT FRESNO TO BAKERSFIELD

HANFORD WEST BYPASS SUBSECTION ALIGNMENT HW2 (BELOW-GRADE) - MODIFIED TYPICAL SECTIONS

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SCALE						
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SHEET	NO.					
	25	OF	29			



DESIGNED BY A. POLING DRAWN BY J. BORGHESI RECORD SET 15% DESIGN SUBMISSION CHECKED BY NOT FOR N CHARGE R. COFFIN

DESCRIPTION

DATE

BY CHK APP



CONSTRUCTION

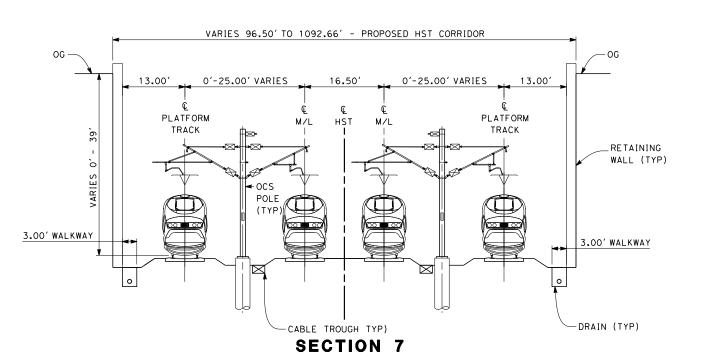
12/31/13



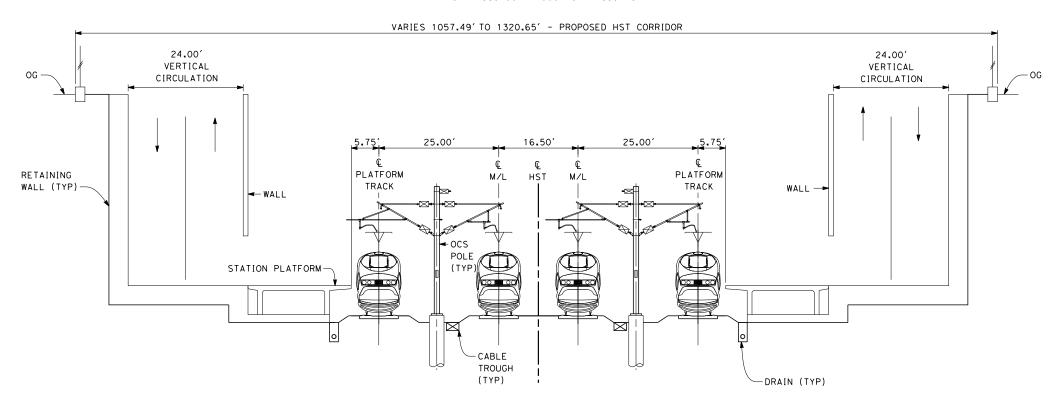
CALIFORNIA HIGH-SPEED TRAIN PROJECT FRESNO TO BAKERSFIELD

HANFORD WEST BYPASS SUBSECTION ALIGNMENT HW2 (BELOW-GRADE) - MODIFIED TYPICAL SECTIONS

CONTR			0007
Н	2K	06-	0003
DRAWIN	G NO.		
	CE	3320)3
SCALE			
	AS	SHO	NWC
SHEET	NO.		
	26	OF	29



4 TRACK IN RETAINED CUT STA 1844+15 THROUGH STA 1844+90 STA 1859+00 THROUGH STA 1859+75



SECTION 8

4 TRACK IN RETAINED CUT WITH PLATFORMS STA 1844+90 THROUGH STA 1859+00

10	0	ΙŌ	20
l''-10'			

&DA.							DESIGNED BY A. POLING	
							DRAWN BY	RECORD SET 15% Design Submission
							CHECKED BY G. MEJIA	-
ER &							IN CHARGE R. COFFIN	NOT FOR CONSTRUCTION
\$USE	REV	DATE	ВΥ	СНК	APP	DESCRIPTION	DATE 12/31/13	





CALIFORNIA HIGH-SPEED TRAIN PROJECT FRESNO TO BAKERSFIELD

NOTES:

1. TRACKFORM SHOWN IS INDICATIVE.

THE CURVE DATA TABLES.

DRAWINGS FOR DETAILS.

2. SUPERELEVATION IS NOT SHOWN. THE AMOUNT

3. HST CORRIDOR WIDTH VARIES THROUGH THE

STATION ACCORDING TO THE STATION FACILITIES PROVIDED. SEE STATION

OF APPLIED SUPERELEVATION IS SHOWN IN

HANFORD WEST BYPASS SUBSECTION ALIGNMENT HW2 (BELOW-GRADE) - MODIFIED TYPICAL SECTIONS

CONTR	ACT N	0.		
H	SR	06-	0003	
DRAWIN	G NO.			
CB3204				
SCALE				
	AS	SHO	NWC	
SHEET	NO.			
	27	OF	29	

136.00' - TYPICAL -FENCE (TYP) – og OG -13.00' 0'-25.00' VARIES 16.50 0'-25.00' VARIES 0'-26.00' VARIES - RETAINING WALL (TYP) PLATFORM PLATFORM STORAGE HST M/L RETAINING TRACK TRACK TRACK WALL (TYP) -18.00' 12.50' 12.00' DRAINAGE PIPE -

RETAINING WALL -

-DRAIN (TYP)

CALIFORNIA

HIGH-SPEED RAIL AUTHORITY

3.00' WALKWAY (TYP)

DRAWN BY J. BORGHESI

CHECKED BY

DATE

BY CHK APP

DESCRIPTION

CHARGE

12/31/13

RECORD SET 15%

DESIGN SUBMISSION

NOT FOR

CONSTRUCTION

NOTES:

FRESNO TO BAKERSFIELD

HANFORD WEST BYPASS SUBSECTION

ALIGNMENT HW2 (BELOW-GRADE) - MODIFIED

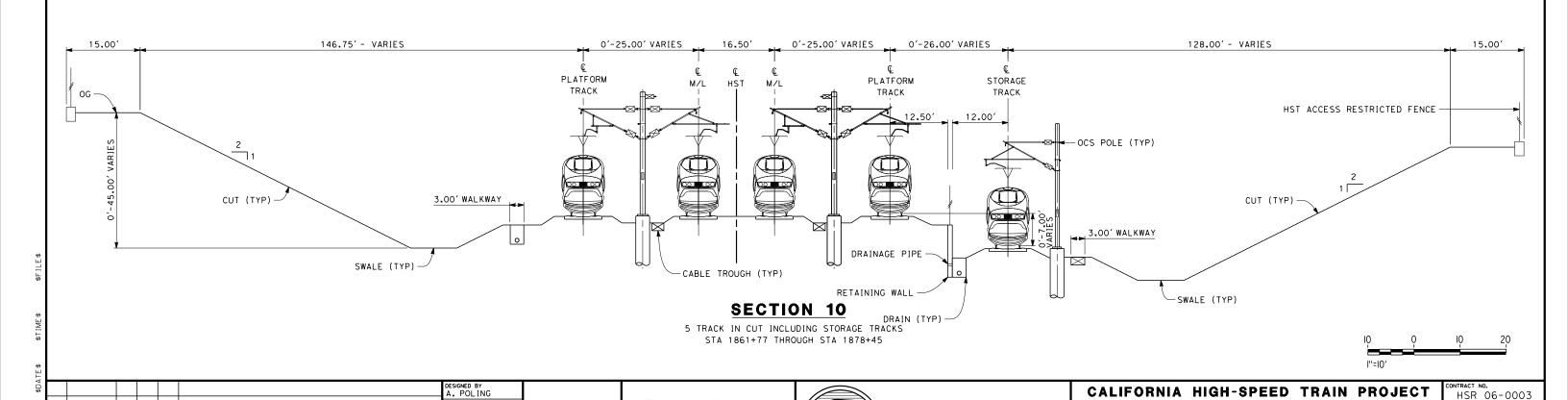
TYPICAL SECTIONS

- 1. TRACKFORM SHOWN IS INDICATIVE.
- SUPERELEVATION IS NOT SHOWN. THE AMOUNT OF APPLIED SUPERELEVATION IS SHOWN IN THE CURVE DATA TABLES.
- 3. HST CORRIDOR WIDTH VARIES THROUGH THE STATION ACCORDING TO THE STATION FACILITIES PROVIDED. SEE STATION DRAWINGS FOR DETAILS.
- 4. CUT SLOPES GREATER THAN 30 FEET IN DEPTH WILL REQUIRE MID SLOPE BENCHES 6 FEET WIDE WITH A 6% GRADIENT TOWARDS THE LOW END OF THE CUT SLOPE.

CB3205

AS SHOWN

28 OF 29

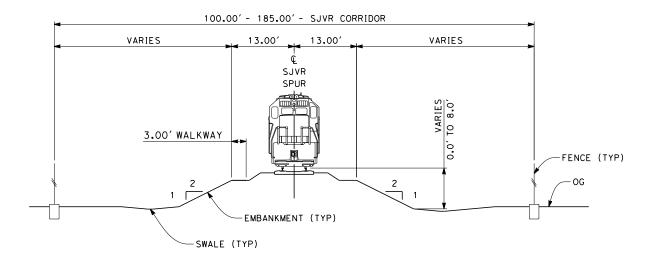


URS HMM ARUP

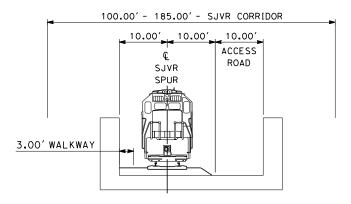
- CABLE TROUGH (TYP)

SECTION 9

5 TRACK IN RETAINED CUT INCLUDING STORAGE TRACKS
STA 1859+75 THROUGH 1861+77



1 TRACK AT GRADE STA 140+48 THROUGH STA 142+98 STA 144+18 THROUGH STA 147+24



SECTION 12

1 TRACK AERIAL STRUCTURE STA 142+98 THROUGH STA 144+18

NOTES:-

- 1. TRACKFORM SHOWN IS INDICATIVE.
- 2. FOR STRUCTURE DIMENSIONS SEE STRUCTURAL CROSS SECTIONS.
- 3. THE SJVR CROSSING OF THE HST SHALL INCLUDE PHYSICAL MEASURES SUCH AS CONTAINMENT PARAPETS, BARRIERS, GUARDRAILS AND/OR OTHER PHYSICAL DERAILMENT PROTECTION TO MITIGATE THE POTENTIAL FOR ERRANT VEHICLES AND/OR CARGO ON OR APPROACHING THE OVERHEAD FACILITY FROM INTRUDING INTO THE HST FACILITY AND ITS OPERATING SPACE. DESIGN OF THE PHYSICAL MEASURES SHALL BE SUBSTANTIATED BY A SITE-SPECIFIC PRELIMINARY HAZARD ANALYSIS (PHA) AND A THREAT AND VUNERABILITY ASSESSMENT (TVA).

0 10 20

						DESIGNED BY A. POLING	
						DRAWN BY J. BORGHESI	RE
						CHECKED BY G. MEJIA	DE8
						IN CHARGE R. COFFIN	۱.
REV	DATE	ВΥ	СНК	APP	DESCRIPTION	DATE 12/31/13	1

RECORD SET 15%
DESIGN SUBMISSION
NOT FOR
CONSTRUCTION



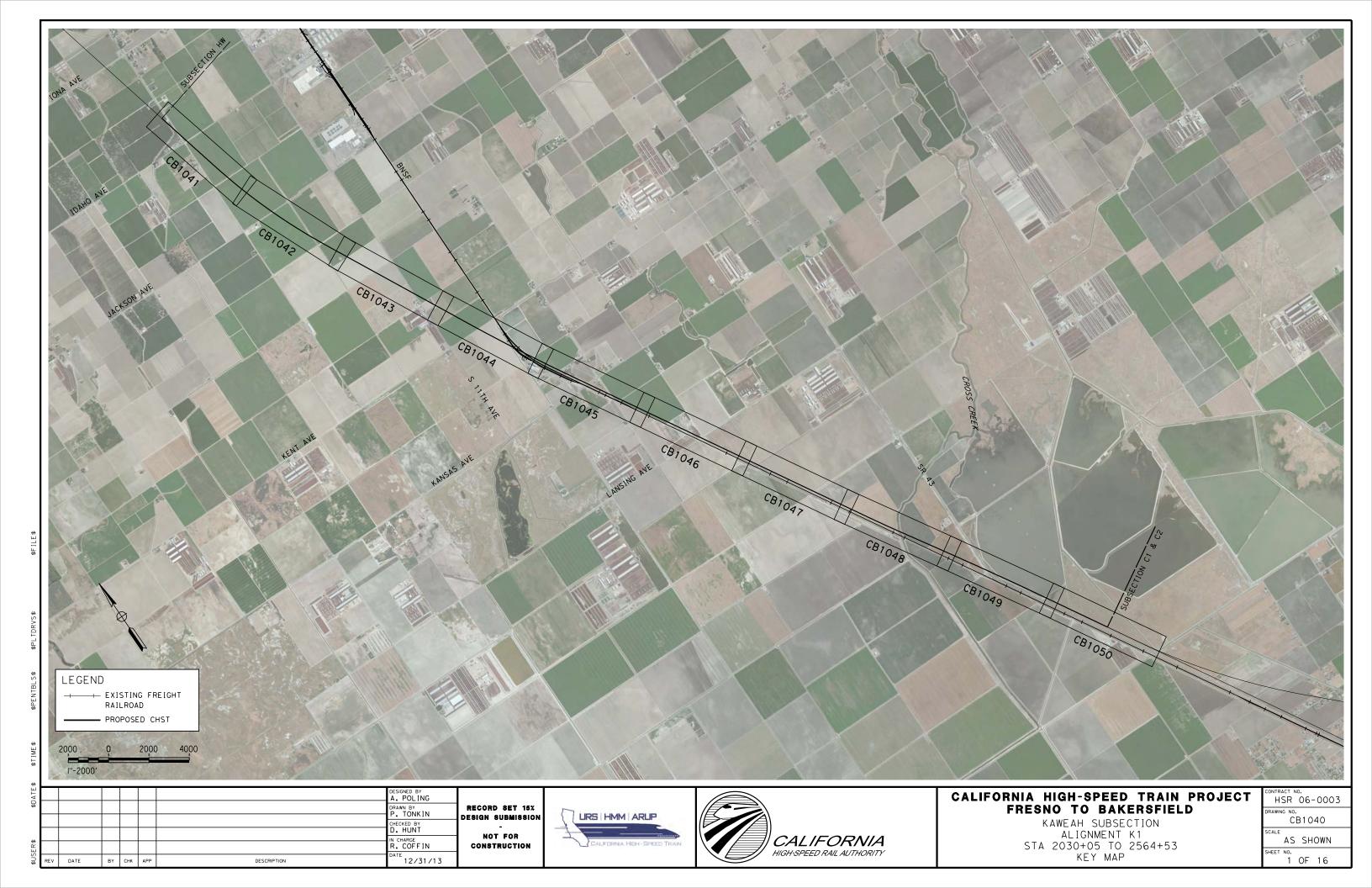


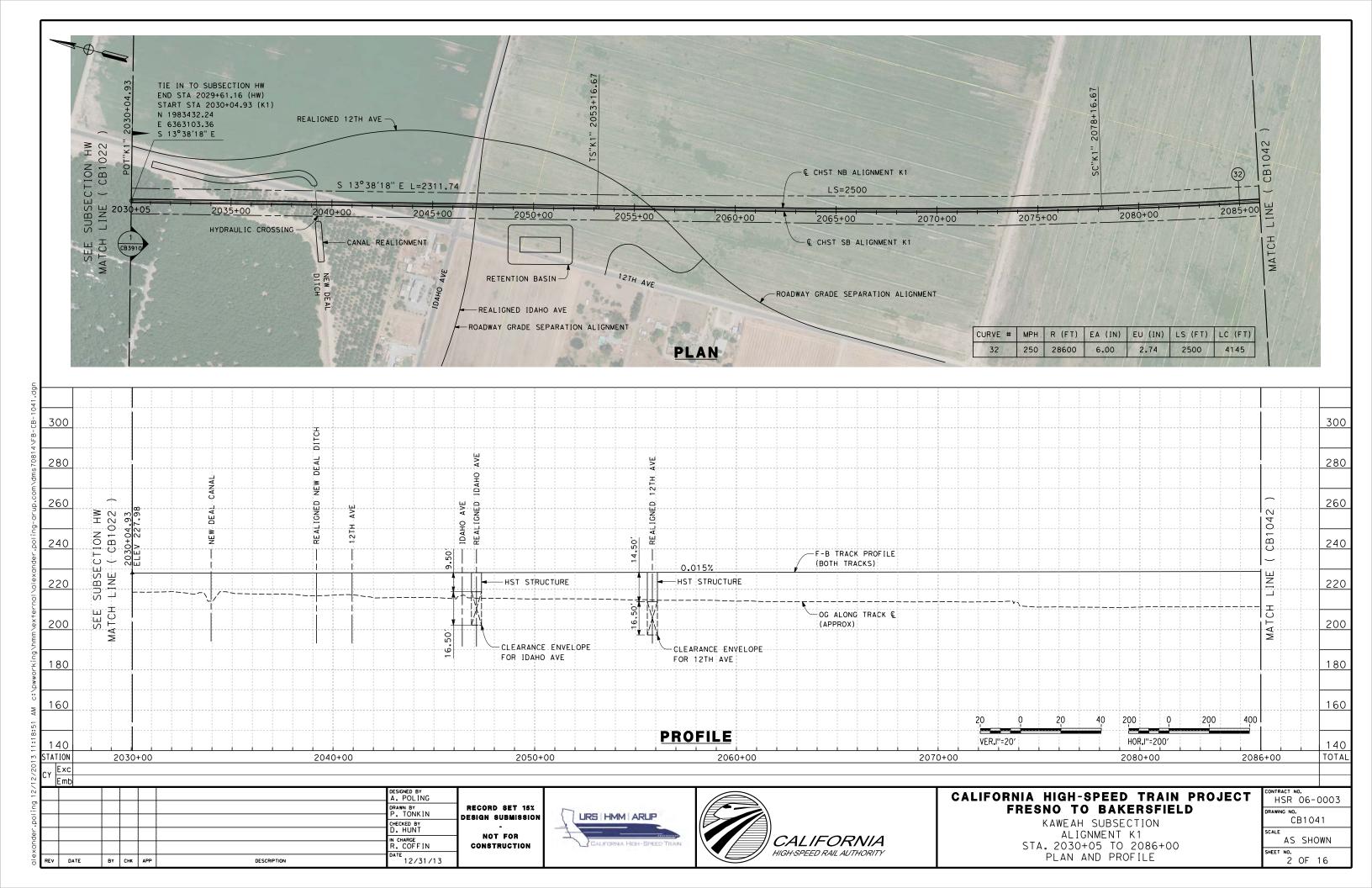
CALIFORNIA HIGH-SPEED TRAIN PROJECT FRESNO TO BAKERSFIELD

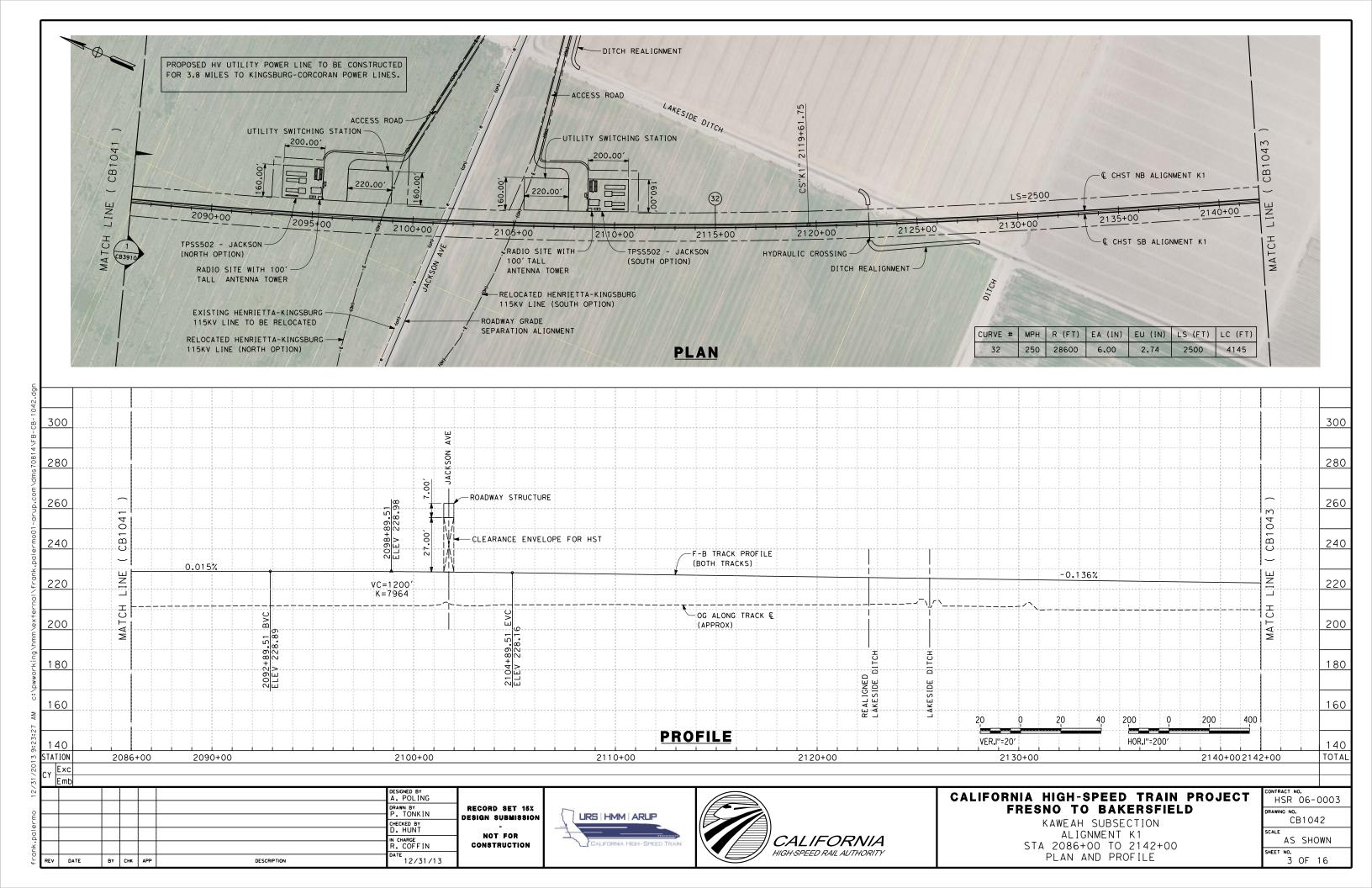
HANFORD WEST BYPASS SUBSECTION
SJVR SPUR REALIGNMENT
TYPICAL SECTIONS

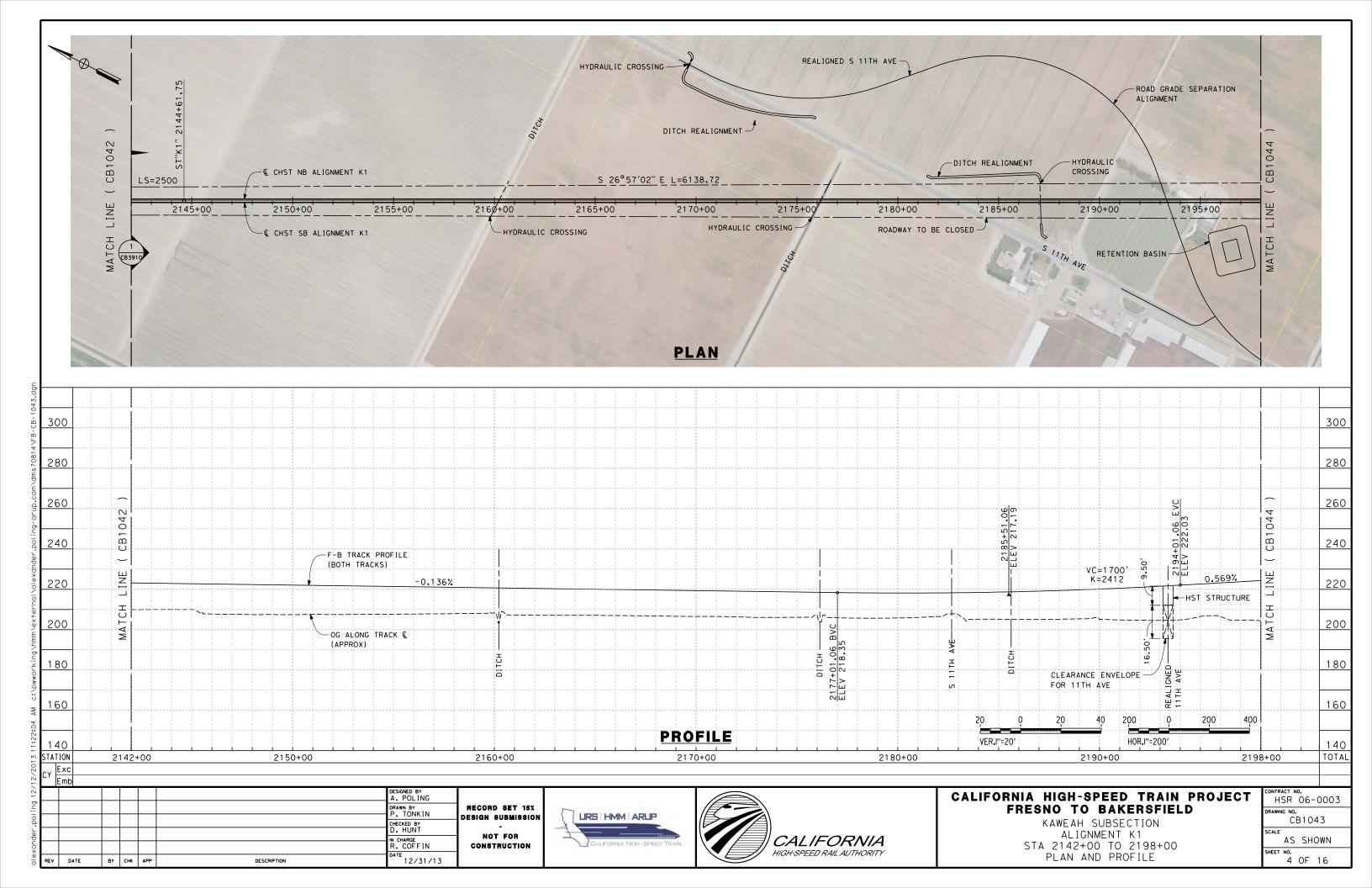
CONTRAC HS			0003
DRAWING	NO.		
	CE	3320	26
SCALE			
1	12	SH	NWC
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1 2	29	OF	29

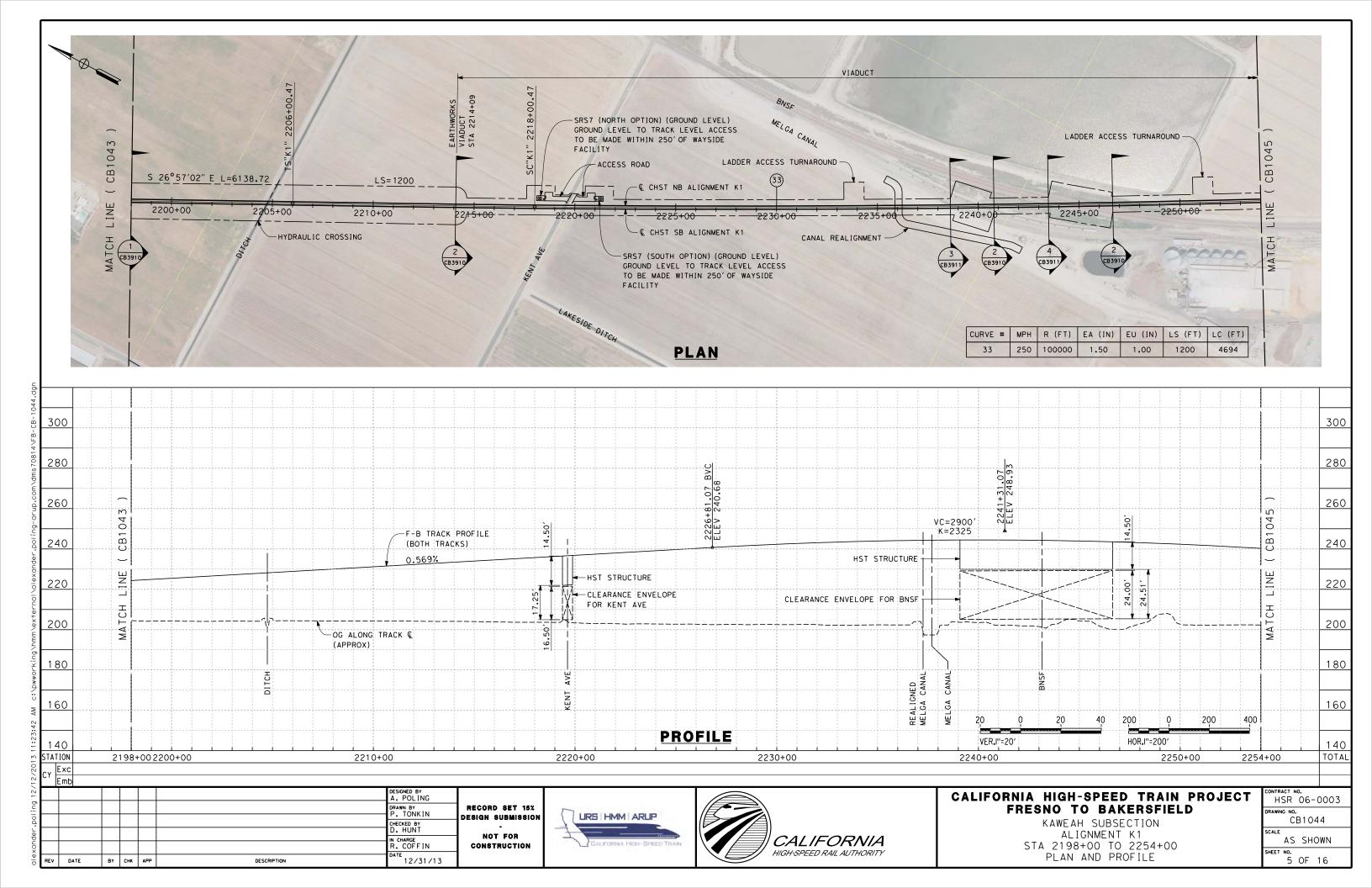
:55:27 PM c:\nwworking\bmm\a>+ernd|\alexander poling-oring com\dms70809\FR-FR-3206-

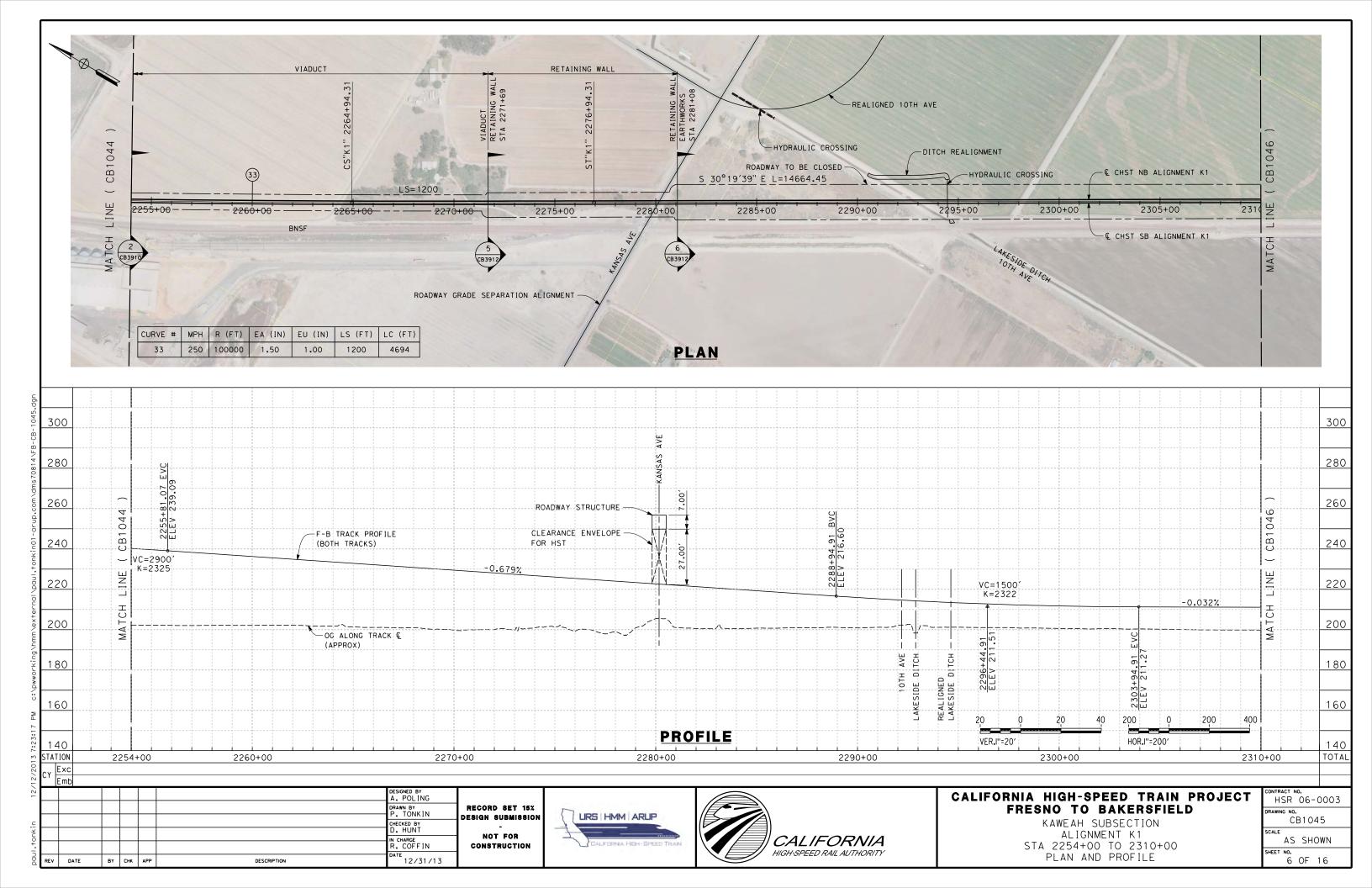


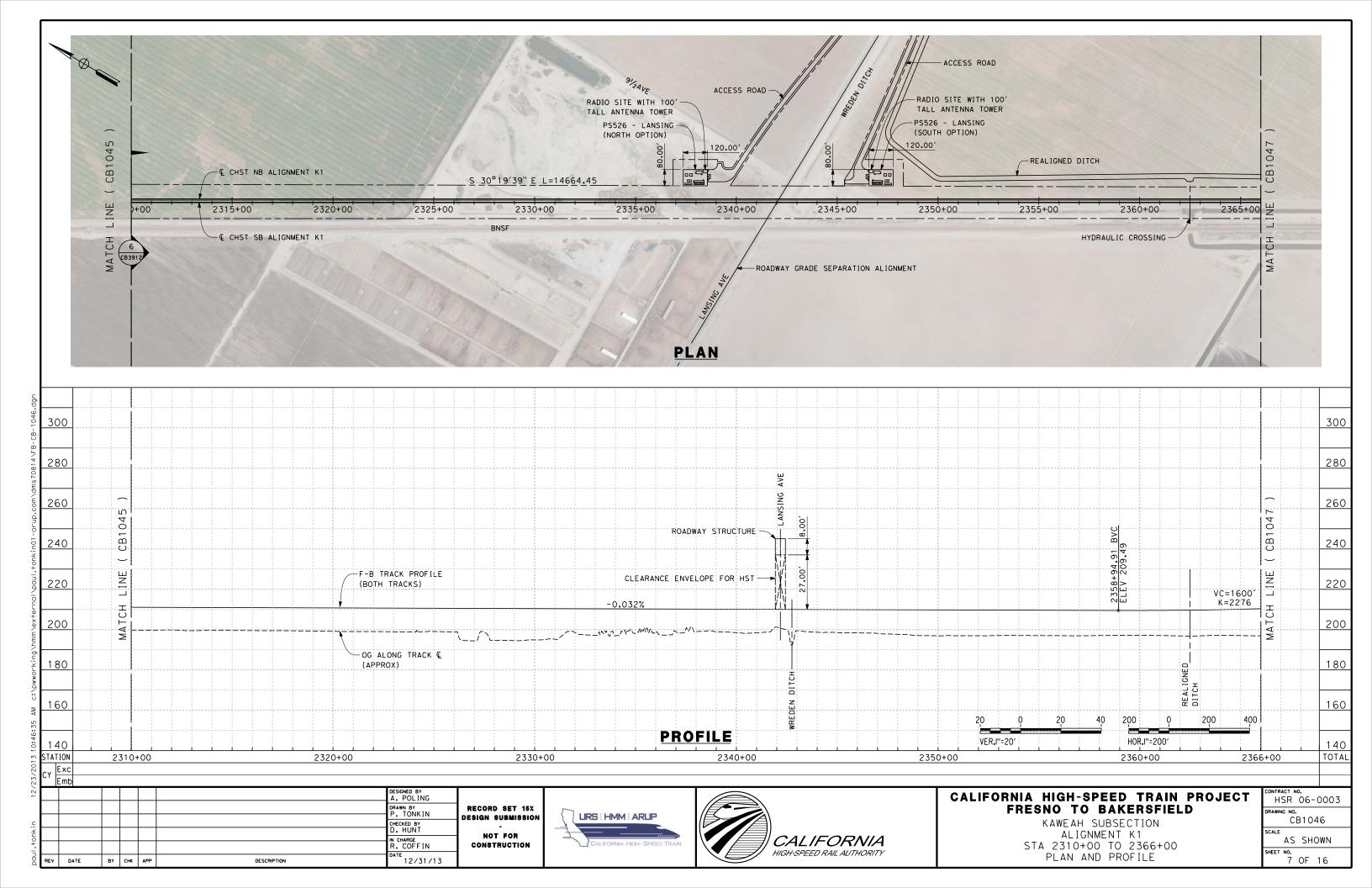


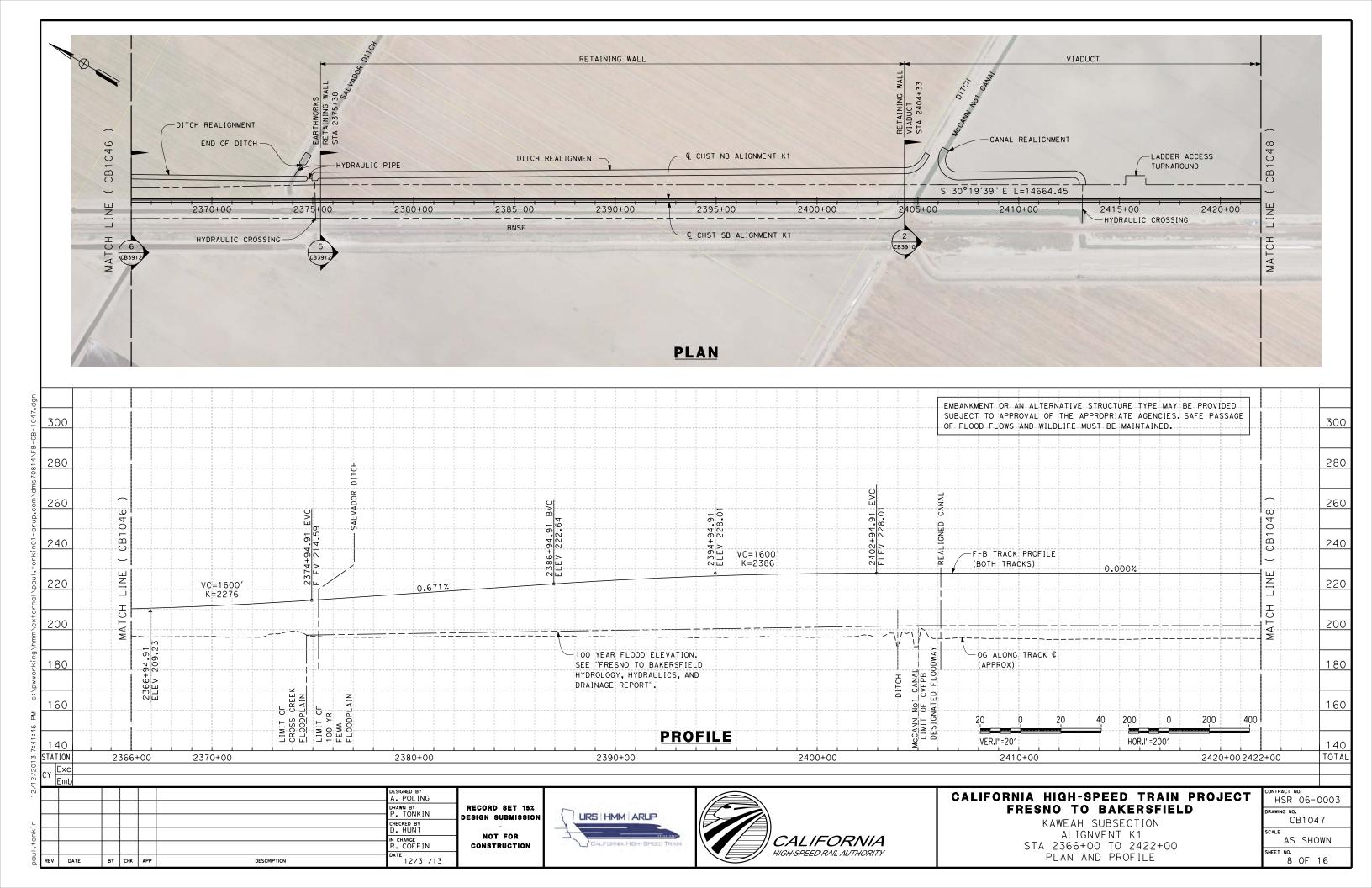


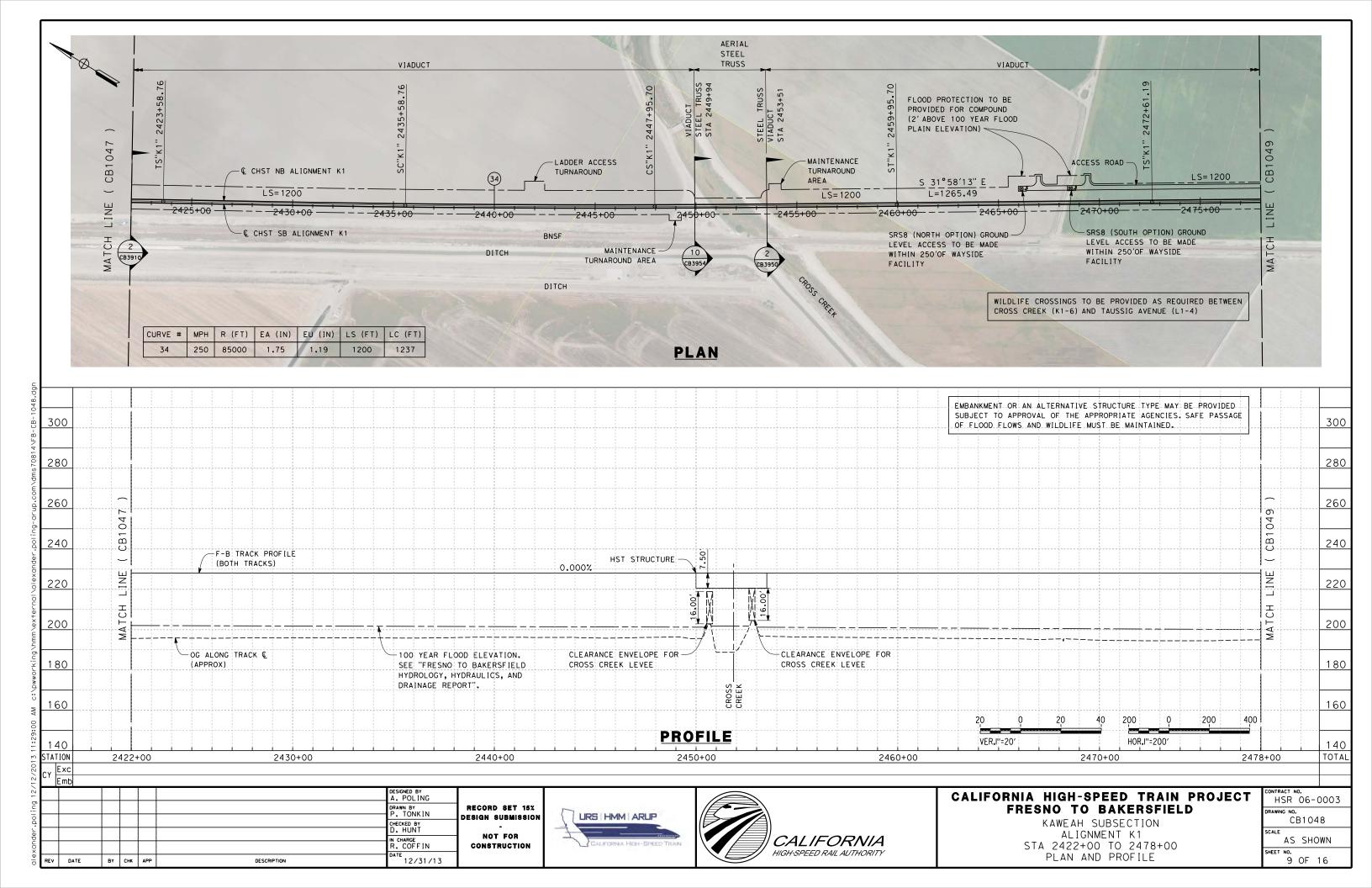


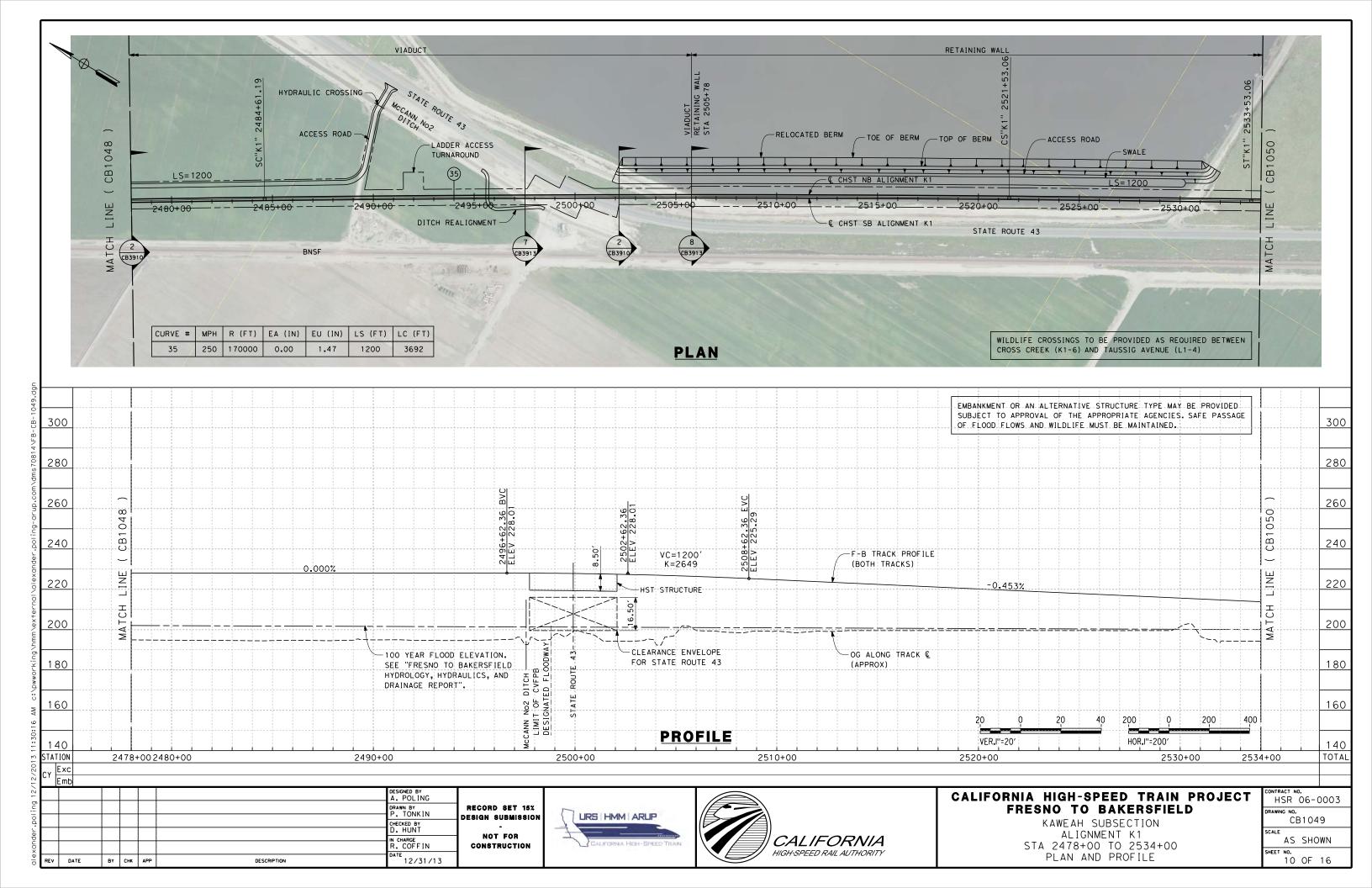


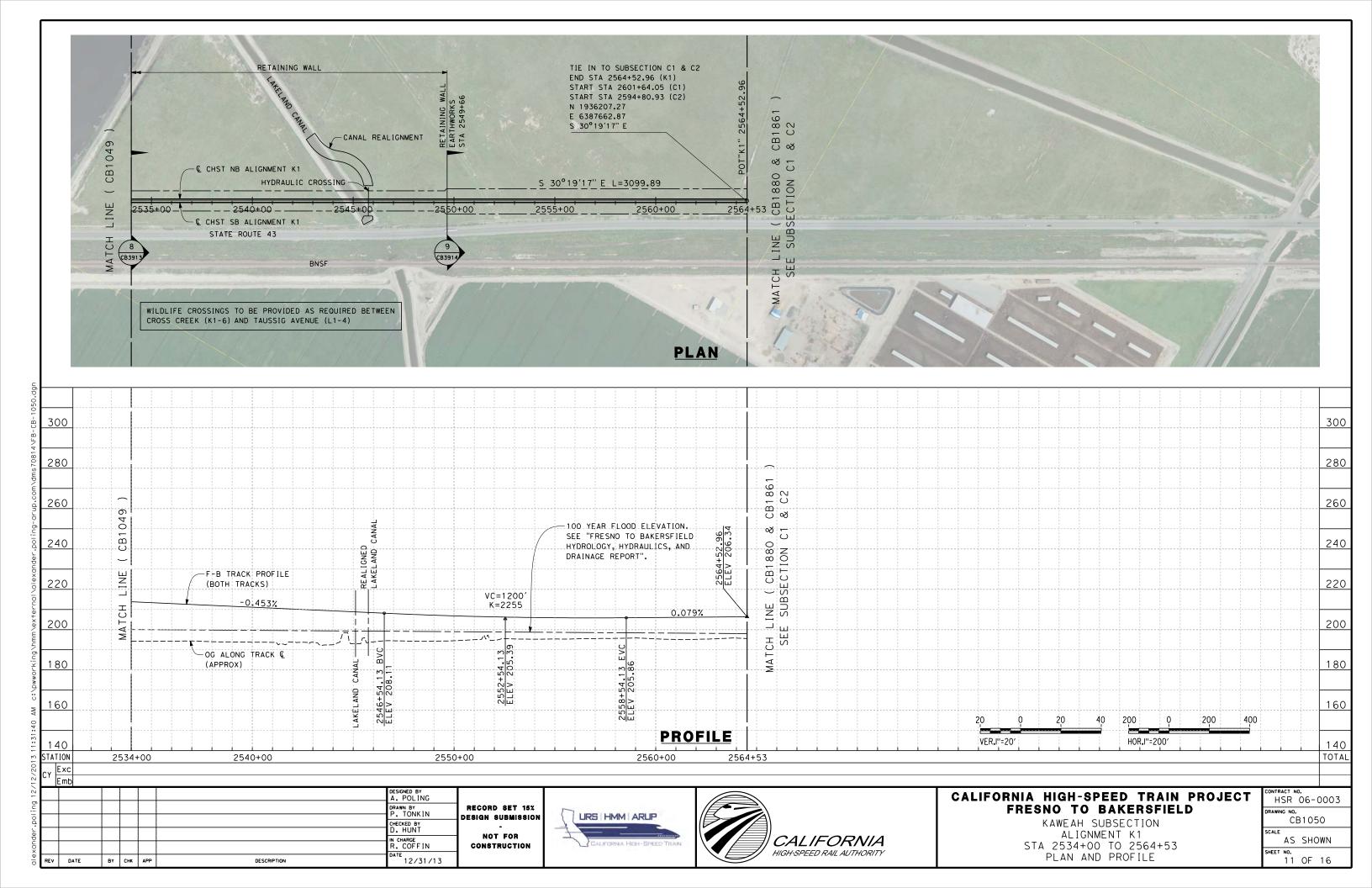




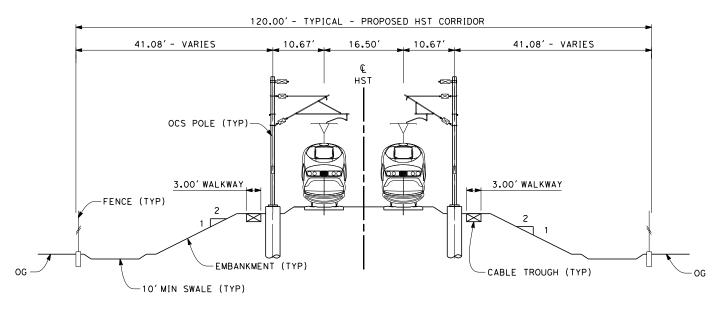






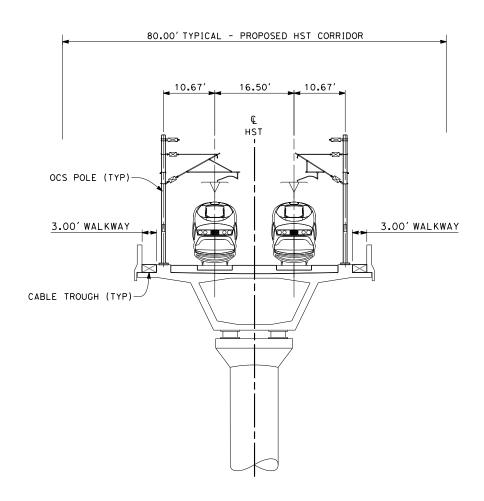


3. FOR STRUCTURE DIMENSIONS SEE STRUCTURAL CROSS SECTIONS.



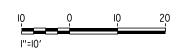
SECTION 1

TWIN TRACK AT GRADE 120FT - EMBANKMENT WITH OPEN DRAINAGE STA 2030+05 THROUGH 2214+09



SECTION 2

TWIN TRACK AERIAL VIADUCT STA 2214+09 THROUGH 2237+89 STA 2240+29 THROUGH 2242+69 STA 2246+29 THROUGH 2271+69 STA 2404+33 THROUGH 2449+94 STA 2453+51 THROUGH 2497+53 STA 2502+18 THROUGH 2505+78



						DESIGNED BY A. POLING DRAWN BY P. TONKIN CHECKED BY D. HUNT IN CHARGE R. COFFIN	RECORD SET 15% Design Submission - Not for Construction
REV	DATE	BY	CHK	APP	DESCRIPTION	12/31/13	



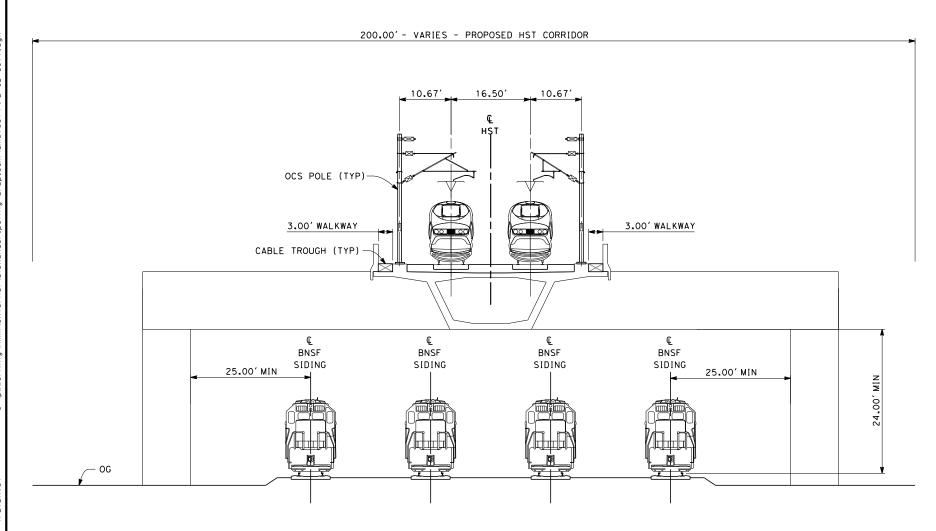


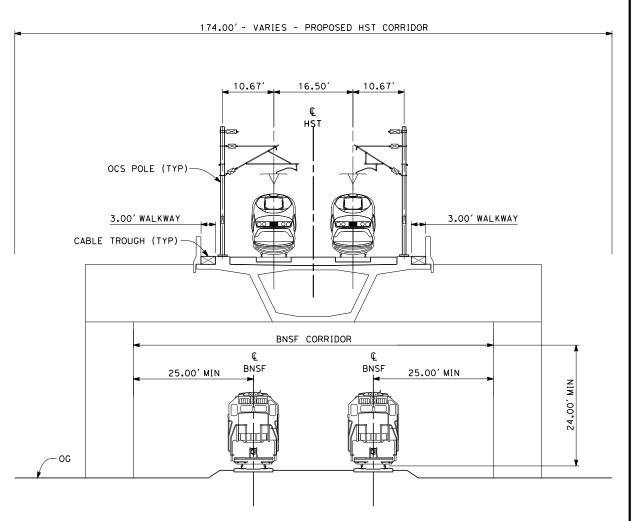
CALIFORNIA HIGH-SPEED TRAIN PROJECT FRESNO TO BAKERSFIELD

KAWEAH SUBSECTION ALIGNMENT K1 TYPICAL SECTIONS

CONTRACT NO. HSR 06-0003
DRAWING NO. CB3910
AS SHOWN
SHEET NO. 12 OF 16

- 1. TRACKFORM SHOWN IS INDICATIVE.
- 2. SUPERELEVATION IS NOT SHOWN. THE AMOUNT OF APPLIED SUPERELEVATION IS SHOWN IN THE CURVE DATA TABLES.
- 3. FOR STRUCTURE DIMENSIONS SEE STRUCTURAL CROSS SECTIONS.





TWIN TRACK INTEGRATED STRADDLE BENT - 4 TRACK BNSF STA 2237+89 THROUGH 2240+29

SECTION 4

TWIN TRACK INTEGRATED STRADDLE BENT - 2 TRACK BNSF STA 2242+69 THROUGH 2246+29



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\$ /12							DESIGNED BY A. POLING	
ા તે	_						DRAWN BY P. TONKIN	RECORD SET 15% Design Submission
gr.po							CHECKED BY D. HUNT	•
xander							IN CHARGE R. COFFIN	NOT FOR CONSTRUCTION
<u>0</u>		DATE	BY	СНК	APP	DESCRIPTION	12/31/13	





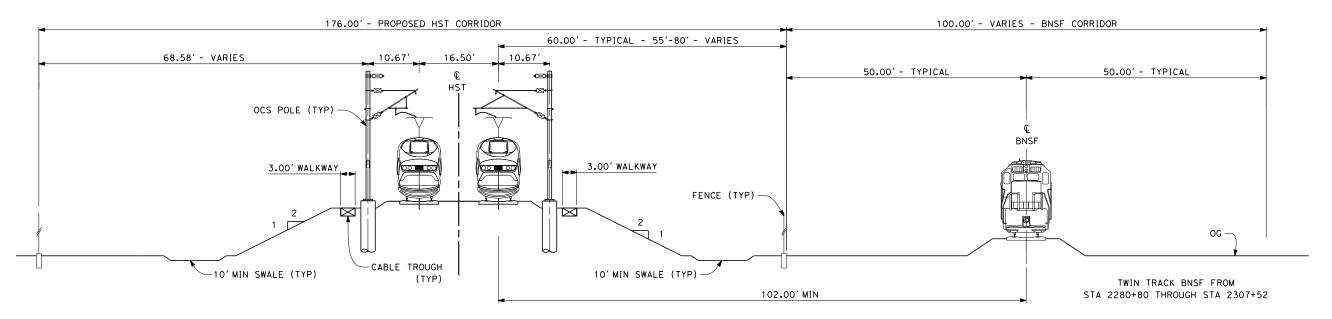
CALIFORNIA HIGH-SPEED TRAIN PROJECT FRESNO TO BAKERSFIELD

KAWEAH SUBSECTION ALIGNMENT K1 TYPICAL SECTIONS

CONTRACT NO.				
HSR 06-0003				
DRAWING NO.				
CB3911				
SCALE				
AS SHOWN				
SHEET NO.				

13 OF 16

TWIN TRACK ON RETAINED EMBANKMENT ADJACENT TO BNSF STA 2271+69 THROUGH 2281+08 STA 2375+38 THROUGH 2404+33



SECTION 6

TWIN TRACK ADJACENT TO BNSF STA 2281+08 THROUGH 2375+38



						A. POLING	
						DRAWN BY P. TONKIN	RECORD SET 15% Design Submission
						CHECKED BY D. HUNT	-
						IN CHARGE R. COFFIN	NOT FOR CONSTRUCTION
REV	DATE	BY	СНК	ΔPP	DESCRIPTION	DATE 12/31/13	1



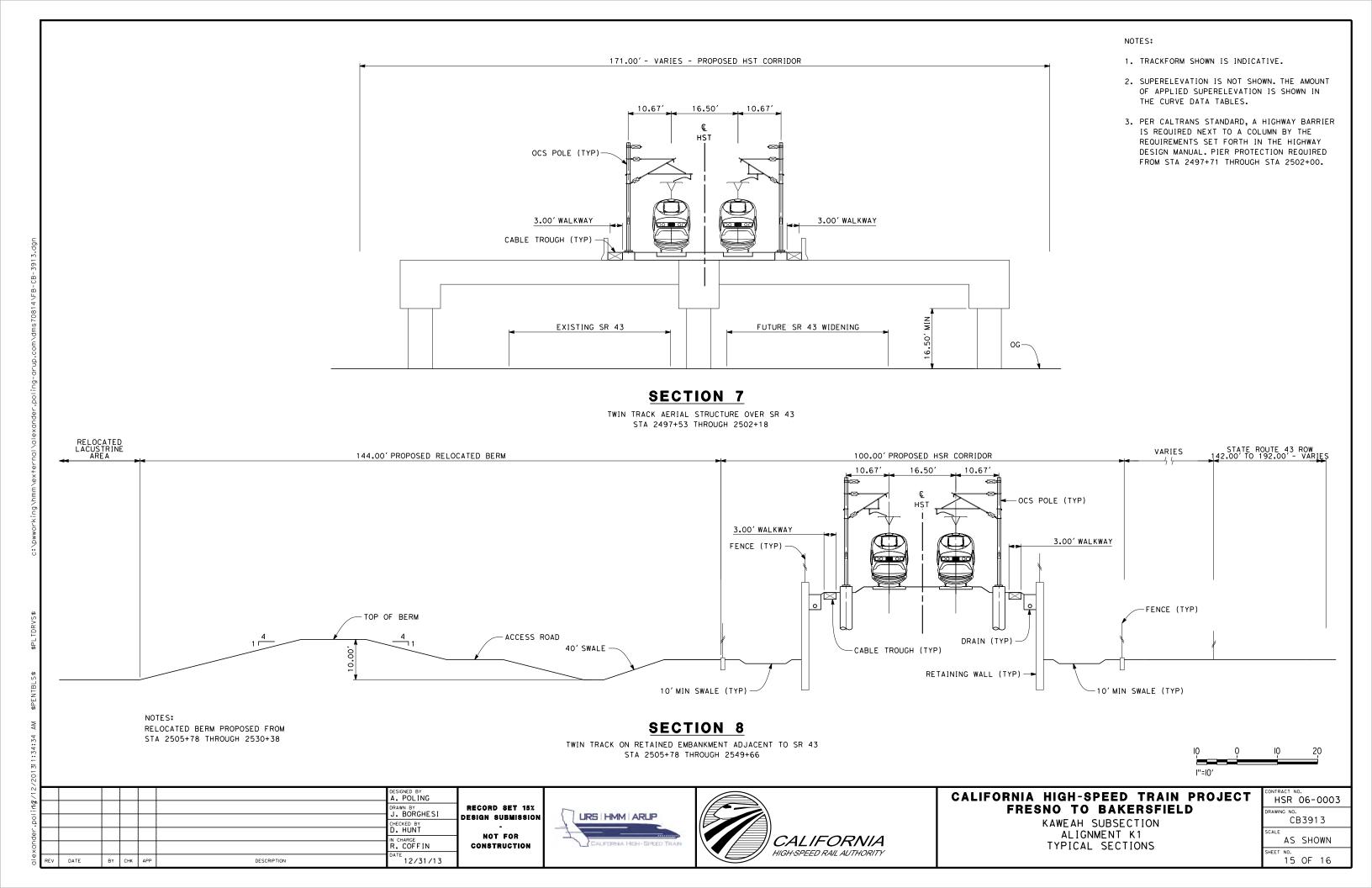


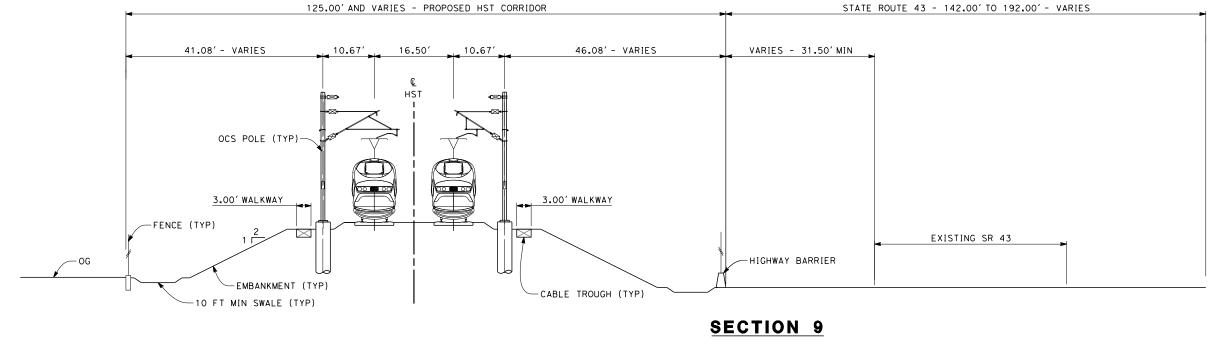
CALIFORNIA HIGH-SPEED TRAIN PROJECT FRESNO TO BAKERSFIELD

KAWEAH SUBSECTION ALIGNMENT K1 TYPICAL SECTIONS

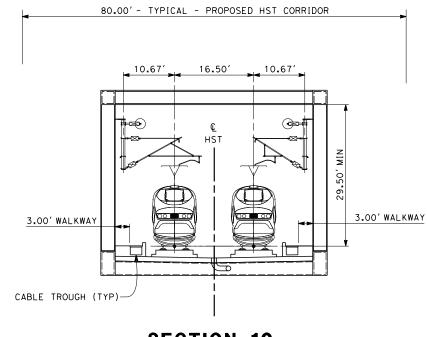
,	CONTRACT NO.
	HSR 06-0003
	DRAWING NO.
	CB3912
	SCALE
	AS SHOWN

14 OF 16





TWIN TRACK AT GRADE ADJACENT TO SR 43 STA 2549+66 THROUGH 2564+53



SECTION 10

TWIN TRACK TRUSS STA 2449+94 THROUGH STA 2453+51

DESIGNED BY A. POLING P. TONKIN D. HUNT R. COFFIN CONSTRUCTION 12/31/13 BY CHK APP DESCRIPTION

RECORD SET 15% DESIGN SUBMISSION

NOT FOR





CALIFORNIA HIGH-SPEED TRAIN PROJECT FRESNO TO BAKERSFIELD

NOTES:

1. TRACKFORM SHOWN IS INDICATIVE.

THE CURVE DATA TABLES.

TRAVELED WAY.

2. SUPERELEVATION IS NOT SHOWN. THE AMOUNT

OF APPLIED SUPERELEVATION IS SHOWN IN

3. PER CALTRANS STANDARD, A HIGHWAY BARRIER IS REQUIRED WHEN THE NEAREST HSR FEATURE IS WITHIN 52' OF THE HIGHWAY EDGE OF

KAWEAH SUBSECTION ALIGNMENT K1 TYPICAL SECTIONS

CONTRACT NO.
HSR 06-0003
DRAWING NO.
CB3914
SCALE
AS SHOWN

16 OF 16